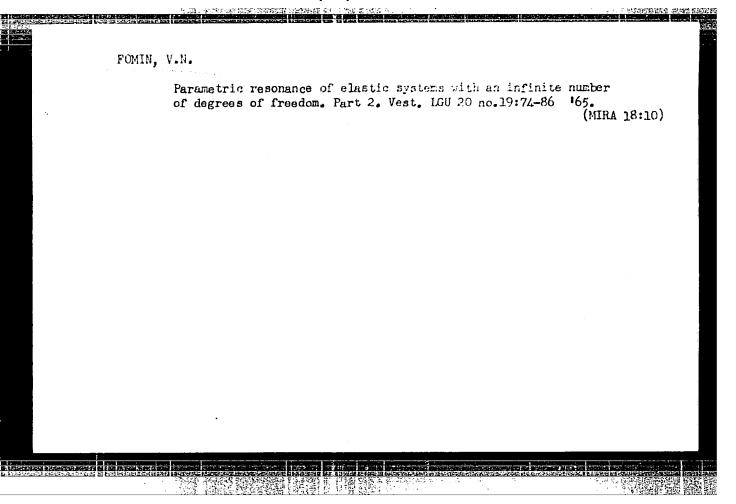


L 9117-00 EWI(d)	/EHÎ(M)/EHF(W)	mr(c)	EF1			444
-ACC NKI AP5027356		SOURCE	CODE	UR/0043/65/000	/004/0074/0086	
AUTHOR: Fomin, V. N.					31	
ORG: none	The state of the s	nlo			B	
TITLE: Parametric refreedom, 2		· · · · · · · · · · · · · · · · · · ·			•	
SOURCE: Leningrad. t	miversite . Vestni	k. Seriya me	temati]	ki, mekhaniki i	astronomii,	
TOPIC TAGS: elastici	ty, elasticity the	ory, dynamic	behav:	lor, dynamic st	ability,	-
ABSTRACT: This artic (Parametricheskiy res Vestnik LGU, No. 13, Hamilton equation	onans uprugikh sis 1965) dealing with	tem s beskor	echnym of the	chislom stepen	ey svobody. I. the quasi-	
Satisfaction of the f	ollowing condition	s is propos	ed: 1)	F is a self-co	njugate wholly	-
continuous operator i						
periodical operator f	unction H(T) is su	bordinate to	the op	peration F^{-1} in	the sense	
Card 1/2					UDC: 517.9	
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HEALTH HEREIGNEST STEELS IN THE STEELS			C1523136135156166	THE PROPERTY OF THE PROPERTY O		

L 9117-66 ACC NR: AP5027356 that for each $\tau \in [0,2\pi]$ the operators $F^{-1}H(\tau)$ and $F^{-1}H^*(\tau)^*$ (where H* denotes the operator which is the conjugate of H in the space of H) are bounded and vary continuously with their argument. The positive parameters ε and θ characterize the amplitude and frequency of excitation; T = Ot is dimensionless time and I is the unit (identity) operator in space H. Some discussion of the conclusions of article I is presented. Article II deals with the case in which "parametric excitation" is small, being directed toward defining the characteristic exponents of the equation given above. A theorem is stated which gives a first approximation to the characteristics in a matrix form. An additional lemma and theorem are stated for the purpose of simplifying the identity of matrix elements. A second order approximation algorithm is stated and is based upon the use of first order approximation and the uses of linear operators defined in I. The relationship between the first and second order methods is discussed. The simplist case of friction in equations of the theory of stability of elastic systems is examined. Orig. art. has: 27 equations and 5 theorms. SUB CODE: 20, 13/ SUBM DATE: 25May64/



EMT(d) IJP(c) UR/0020/65/163/004/0830/0833 AP5020820 ACCESSION NR: AUTHOR: Fomin, V. N. TIFIE: Method of perturbations in the theory of dynamic stability of systems with distributed parameters SOURCE: AN SSSR. Doklady, v. 163, no. 4, 1965, 830-833 TOPIC TAGS: differential equation, Hilbert space ABSTRACT: The author considers $i\frac{d}{dt}Fx=[I+\partial l(\tau)]x, \quad \tau=0t, \quad i=\sqrt{-1},$ where F is a self adjoint completely continuous operator on Hilbert space H with unbounded inverse and the operator function $\mathcal{H}(\tau)$ is such that $F^{-1}\mathcal{H}(\tau)$ is uniformly continuous on 0,217 with uniformly continuous derivative. Let So be the closure of $i\frac{d}{d\tau} - \frac{1}{6}F^{-1}$ and let S_1 be defined by $S_1y = -\frac{1}{6}(F^{-1}\mathcal{H}(\tau))^*y(\tau)$. The author proves the following four theorems. Theorem 1. The operator solution X(t) of the Hamiltonian equation (1), defined by the solution x(t) by the formula x(t) = X(t)x(0), can be represented in the form (2) Cord 1/3

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	ρ(3 €,	$ \theta\rangle - \rho_N(\mathcal{H}, \theta) < \epsilon$	(4)	
for all # and 0 a	natisfying the condi	tions $\mathscr{H}(\tau) \parallel \leq C, \theta_0 \leq \theta \leq 0$	(5)	
Orig. art. has: 5	formulas.	•		
ASBOCIATION: Leni (Leningrad State)	ingradskiy gosudars University)	tvennyy universitet i	m. A. A. Zhdanova	
SUBMITTED: 04Jan	フラ	ENCL: 00	SUB CODE:	М
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FOMIN, V.N.

Parametric resonance of elastic systems with distributed parameters. Dokl. AN SSSR 164 no.1:58-61 S '65. (MIRA 18:9)

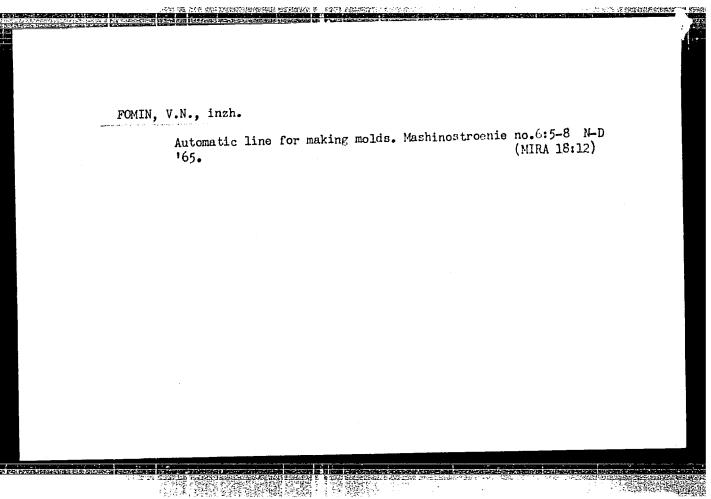
1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova. Submitted February 8, 1965.

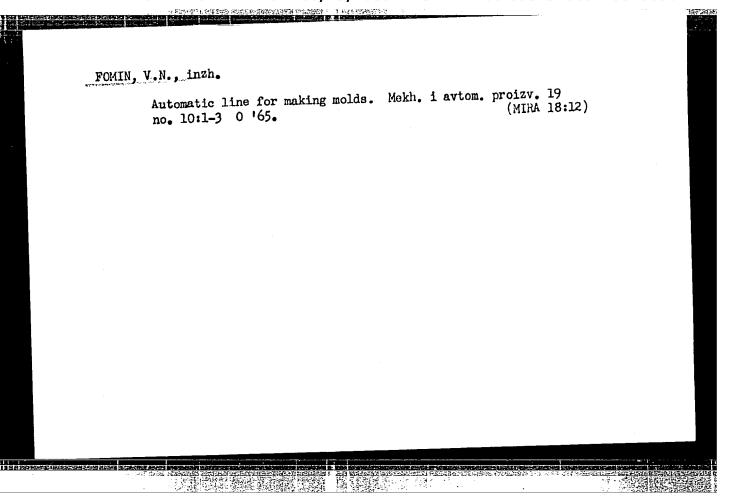
APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413510006-1"

PARZYAN, Karp TSolakovich; FOVIN, Vitaliy Nikolayevich; SHNEYDFFMAN, K.A., red.

[The youth of an old foundry] Molodost' starogo tsekha. Rostov-na-Donu, Rostovskoe knizhnoe izd-vo, 1965. 86 p. (MIRA 18:12)

1. Nachal'nik liteynogo tsekha serogo chuguna zavoda Rostsel'mash, Rostov-na-Donu (for Parzyan). 2. Zamestitel' glavnogo metallurga zavoda Rostsel'mash, Rostov-na-Donu (for Fomin).





L 20986-66 EWT(1)/ IJP(a) WW/GG

ACCESSION NR: AP5019930

UR/0043/65/000/003/0073/0087

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AUTHOR: Fomin, V. N.

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Control of the Party of the Par

TITLE: Parametric resonance in elastic systems having an infinite number of

degrees of freedom. I

SOURCE: Leningrad. Universitet. Vestmik. Seriya matematiki, mekhaniki i astro-

nomii, no. 3, 1965, 73-87

TOPIC TAGS: dynamic stability, parametric resonance, linear system, approximation method

ABSTRACT: Parametric excitation of linearized systems with an infinite number of degrees of freedom is described, and a perturbation method is developed to study the dynamic stability of a system with distributed parameters. The question of the relation of such a system to a finite system obtained by Galerkin's first method is investigated. An approximation method is proposed for finding the system's characteristic indices in the right half-plane. The correspondence between the exact value of a quantity characterizing instability in the Hamiltonian equation and its

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ACCESSION NR: AP5019930

approximate value in the first approximation is considered. The effect of friction on the stability of a system with an infinite number of degrees of freedom is also considered. "Used in this paper are many results of various authors who have done research in systems having a finite number of degrees of freedom, particularly the results of V. A. Yakubovich, who drew the author's attention to the series of problems considered here." Orig. art. has: 57 formulas.

ASSOCIATION: none

SUBMITTED: 01Mar64

ENCL: 00

SUB CODE: MA

NO REF SOV: 014

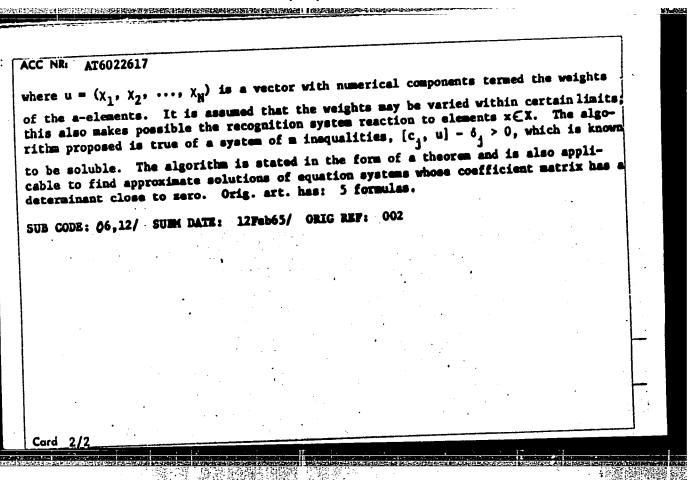
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"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413510006-1

SOURCE CODE: UR/3040/65/000/004/0072/0075 (A) ACC NR. AT6022617 AUTHOR: Fomin, V. N. ORG: none TITLE: An algorithm for recognition systems SOURCE: Leningrad. Universitet. Kafedra vychislitel'noy matematiki i Vychislitel'nyy tsentr. Vychislitel'naya tekhnika i voprosy programirovaniya, no. 4, 1965, 72-75 TOPIC TAGS: algorithm, approximation solution, character recognition, pattern recognition ABSTRACT: Some problems in the design of recognition systems make it necessary to find recurrent decision algorithms for systems of large numbers of linear inequalities This paper shows how such inequalities may be obtained and presents an algorithm for finding their solutions. Elements x of set X (the "image space," which may be considered a closed unitary cube in Euclidean space) are fed to the recognition system input; $a_j(x)$ represents the functions of a-elements; the reaction $s_N(u, x)$ of the recognition system to element x EX is determined by (1) Card



EMP(m)/EMP(j)/EMT(1)/EMT(m)/EMP(e)RM/IG/WW ь 38788-66 UR/0208/66/006/004/0714/0726 SOURCE CODE: ACC NR: AP6025925 AUTHOR: Fomin, V. N. (Moscow) ORG: none TITLE: Hypersonic gas flow past blunt bodies with radiation taken into account Zhurnal vychialitel'noy matematiki i matematicheskoy fiziki, v. 6, no. 4, SOURCE: 714-726 TOPIC TAGS: hypersonic aerodynamics, hypersonic flow, radiation, shock wave, luminescence, inviscid flow, detached shock wave, radiation effect ABSTRACT: The method of integral relations is applied to the solution of hypersonic air flows past blunt, axisymmetric bodies with radiation taken into account. The calculation procedure is based on the use of an approximation of functions along the shock layer. The limiting state of the gas (volume luminescence) -- in which absorption can be negeleted -- is considered. A complete system of gasdynamic equations describing the inviscid, non-heat-conducting, equilibrium, nonrelativistic gas flow is derived and solved in the second approximation. Calculations were carried out for the flow region limited by the shock wave, symmetry axis, the surface of the body, and the characteristic drawn between body and shock wave with and without taking radiation into account in order to check the accuracy of the analytical procedure. The maximum discrepancy of 2-3%

Card 1/2

UDC: 517.9:533.7

was found on the boundary characteristic in the region of its intersection with the

L 38788-66

ACC NR: AP6025925

shock wave. In all other points in the flow the error was found to be about 0.5%. The results of a numerical calculation of the flow past a sphere 1 m in diameter with radiation taken into account in the range of $M^{\infty} = 10-35$, $\rho_{\infty} = 0.01-0.00001$ atm, $T_{\infty} = 220-300$ K presented in graphs and a table show that the effect of radiation substantially depends on M_{∞} and ρ_{∞} and also on $R_{\rm e}$. The magnitude of the shock-wave detachment distance decreases when radiation is taken into account, and this is particularly evident in the stagnation point region though less so in the region of the characteristic. The procedure described here for air flow may also be used for various gas mixtures. Orig. art. has: 8 figures, 25 formulas and 1 table. [AB]

SUB CODE: 20/ SUBM DATE: 20Nov65/ ORIG REF: 010/ OTH REF: 001/ ATD PRESS:515

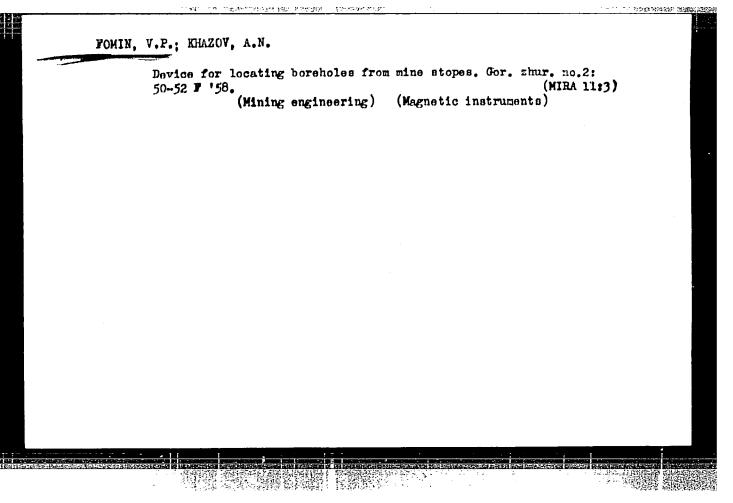
Card 2/2

 $\frac{dx}{dt} = Cx.$

Formulas are also derived for the calculation by successive approximations of characteristic exponents for perturbed systems with periodic coefficients, for a vector equation of PREVED FOR REPEASE V67 199/2000 rame VIA-REPERSON 3513 ROW 3713 1005-1

Card 1/2

are made concern systems, Orig.	ing the effect art. has: 175	of combinator	ry resonance.	on the st	ability.of	elastic
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SHESTOPALOV, P.I., inzh.; FOMIN. V.P., inzh.; FILATOVA, G.P.,
inzh.; GROEOV, I.V.,nauchn.sotr.; STEPANOVA,I.N.,red.

[Fishing in the Amur River] Rybolovstvo na Amure. Vladivostok, TSentr. biuro tekhn. informatsii, 1962. 103 p.
(KIRA 18:1)

1. Amurskoye otdeleniye Tikhookeanskogo instituta rybnogo
khozyaystva (for Gromov).

Methods of prolonged surface anesthesia and its use in diseases of the peripheral nervous system. Vop.kur.fizioter. i lech.fiz.kul't.
21 no.4:111-112 O-D '56.

(MURA 9:12)

(IMCAL ANESTHESIA) (NERVOUS SYSTEM--DISMASES)

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Prolonged anesthesis method in the treatment of neuraligic syndromes. Sov.med. 22 no.]:117-118 Mr '58. (MIRA 11:4) (MEMRALDIA, ther.

phenol-tetracaine prep. in neuralgic synd. (Rus)) (ANESTHETICS. LOCAL tetracaine-phenol prop. in neuralgic synd. (Rus)) (PHENOLS, ther. use phenol-tetracaine prep. in neuralgic synd. (Rus))
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·空行 25克 第2個是其實 增强通過 1770年

VOLYNKIN, Yu.M.; YAZDOVSKIY, V.I., prof.; GENIN, A.M.; GAZENKO, O.G.; GUROVSKIY, N.N.; YEMEL'YANOV, M.D.; MIKHAYLOVSKIY, G.P.; GORBOV, F.D.; SERYAPIN, A.D.; BAYEVSKIY, R.M.; ALTUKHOV, G.V.; KOPANEV, V.I.; KAS'YAN, I.I.; MYASNIKOV, V.I.; TERENT'YEV, V.G.; ERYANOV, I.I.; FEDOROV, Ye.A.; FOMIN, V.S.; ARUTYUNOV, G.A.; ANTIPOV, V.V.; KOTOVSKAYA, A.R.; KAKURIN, L.I.; TSELIKIN, Ye.Ye.; USHAKOV, A.S.; VOLOVICH, V.G.; SAKSONOV, P.P.; YEGOROV, A.D.; NEUMYVAKIN, I.P.; TALAPIN, V.F.; SISAKYAN, N.M., akademik, red.; KOLPAKOVA, Ye.A., red.izd-va; ASTAF'YEVA, G.A., tekhn.red.

[First group space flight; scientific results of medical and biological studies carried out during the group orbital flight of manned satellites "Vostok-3" and "Vostok-4]
Pervyi gruppovoi kosmicheskii polet; nauchnye rezul'taty mediko-biologicheskikh issledovanii, provedennykh vo vremia gruppovogo orbital'nogo poleta korablei-sputnikov "Vostok-3" i "Voskot-4." Moskva, Izd-vo "Nauka," 1964. 153 p.

(MIRA 17:3)

VOLYNKIN, Yu.M.; ARUTYUNOV, G.A.; ANTIPOV, V.V.; ALTUKHOV. G.V.;

BAYEVSKIY, R.M.; BELAY, V.Ye.; BUYANOV, P.V.; BR...NOV, I.I.;

VASIL'YEV, P.V.; VOLOVICH, V.G.; GAGARIN, Yu.A.; GENIN, A.M.;

GORBOV, F.D.; GORSHKOV, A.I.; GUROVSKIY, N.N.; YESHANOV, N.Kh.;

YEGOROV, A.D.; KARPOV, Ye.A.; KOVALEV, V.V.; KOLOSOV. T.A.;

KORESHKCV, A.A.; KAS'YAN, I.I.; KOTOVSKAYA, A.R.; KALIBERDIN,

G.V.; KOPANEV, V.I.; KUZ'MINOV, A.P.; KAKUR'IN, L.I; KUDROVA,

R.V.; LEBEDEV, V.I.; LEBEDEV, A.A.; LOBZIN, P.P.; MAKSIMOV,

D.G.; MYASNIKOV, V.I.; MALYSHKIN, Ye.G.; NEUMYVAKIN, I.P.;

ONISHCHENKO, V.F.; POPOV, I.G.; PORUCHIKOV, Ye.P.; SIL'VESTROV,

M.M.; SERYAPIN, A.D.; SAKSONOV, P.P.; TERENT'YEV, V.G.; USHAKOV,

A.S.; UDALOV, YU.F.; FOMIN, V.S.; FOMIN, A.G.; KHLEBNIKOV, G.F.;

YUGANOV, Ye.M.; YAZDOVSKIY, V.I.; KRICHAGIN, V.I.; AKULINICHEV,

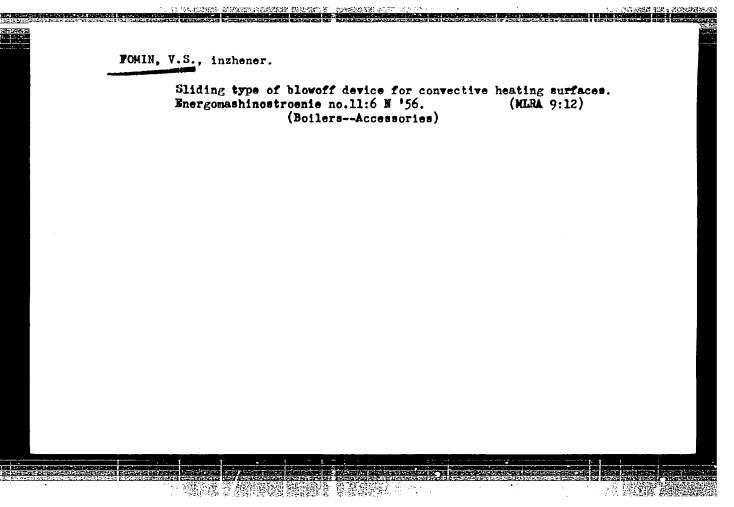
I.T.; SAVINICH, F.K.: SIMPURA, S.F.; VOSKRESENSKIY, O.G.;

GAZENKO, O.G., SISAKYAN, N.M., akademik, red.

[Second group space flight and some results of the Soviet astronauts' flights on "Vostok" ships; scientific results of medical and biological research conducted during the second group space flight] Vtoroi gruppovoi kosmicheskii polet i nekotorye itogi poletov sovetskikh kosmonavtov na korabliakh "Vostok"; nauchnye rezul'taty medikobiologicheskikh issledovanii, provedennykh vo vremia vtorogo gruppovogo kosmicheskogo poleta. Moskva, Nauka, 1965. 277 p. (MIRA 18:6)

VASIL'YEV, V.I., ingh.; FOMIN, V.S.

Experience in simultaneous assembling of structural elements and equipment during the construction of a sugar plant. Prom. stroi. 41 no.4:25-28 Ap '64. (MIRA 17:9)



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S/137/62/000/005/137/150 A052/A101

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AUTHORS:

Kartyshov, A. V., Fomin, V.S.

TITLE:

Welding in CO2 atmosphere

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 34, abstract 5E166 ("Proizv.-tekhn. sb. Tekhn. upr. M-va rechn. flota RSFSR", no. 7(19),

1961, 52 - 55)

The experience of the Krasnoyarsk shipyard in arc-welding in CO2 is described. The installation for welding in CO2 used at the shipyard consists of NII-5 (PSh-5) semiautomatic machine with a monitor cabinet and the power source, - NC -300 M (PS-300M) generator -, of gas equipment consisting of a cylinder with O2-reductor, gas heater and drier, and a special holder for welding in CO2. PS-300M generator was modified with the purpose of obtaining a rigid characteristic. As a gas envelope commercial CO2 is used. CB-08FC (Sv-08GS) electrode wire of 1 and 1.2 mm in diameter is used for welding. A stable arc burning is secured on reversed polarity. The electrode overhang is 10 - 12 mm, the arc length is 2 - 3.5 mm. At present 2 posts for welding in CO2 are occupied

Card 1/2

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Welding in CO2 atmosphere

with welding superstructures and a third post is used for welding volume sections. The welding in CO_2 is also used for manufacturing welded "grebnykh opytov" (?) and for repairing casting defects in screw propeller blades and steel castings. A great advantage of this method is a considerable reduction of deformations, an improvement of the quality and appearance of welded seams, a reduction of production costs due to the economy of electric power and electrode wire.

V. Klyuchnikova

[Abstracter's note: Complete translation]

Card 2/2

Assembly of the technical equipment of the Timashevskaya sugar plant.

Mont. i spet. rab. v stroi. 24 no.1:5-9 Ja '62. (MTRA 15:7)

1. Glavnoye upravleniye po montazhu tekhnologicheskogo oborudovaniya i proizvodstvu montazhnykh rabot Ministerstva stroitel'stva RSFSR i trest Yuzhtekhmontazh.

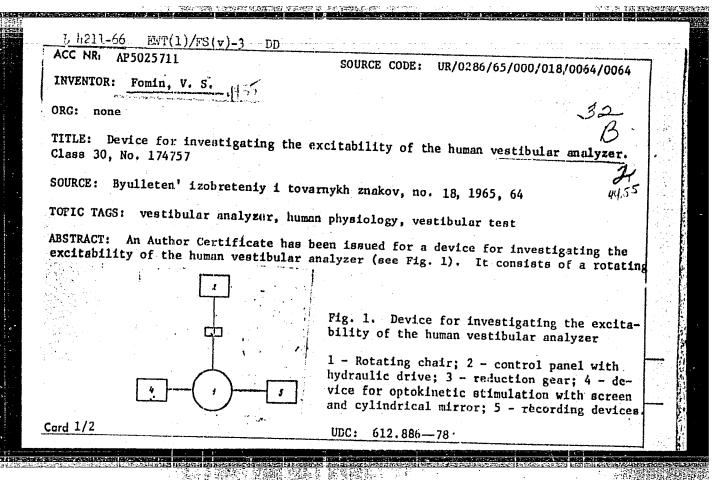
(Timashevskaya—Sugar manufacture)

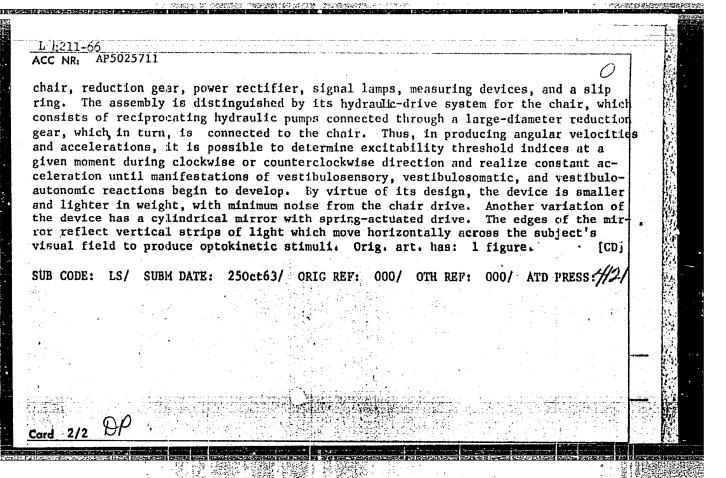
Card 1/2

612.133.08

27585-66 ACC NRI AP6018397 SOURCE CODE: UR/02:39/65/051/011/1373/1374 Fordin, V. S. (Moscow) ORG: none TITIE: Differential piezoceramic sensor for recording tachooscillograms of the brachial artery SOURCE: Fiziologicheskiy zhurnel SSSR, v. 51, no. 11, 1965, 1373-1374 TOPIC TAGS: piezoelectric ceramic, manometer, medical laboratory instrument ABSTRACT: The differential piezoceramic sensor proposed by the author differs from the differential manometer of the mechanocardiograph in that it contains a piezoceramic disk instead of a rubber disphragm as the sensitive element. Its housing, together with a connecting link for attachment of rubber tube and screw-on lid, with connecting link, represents an airtight chamber with two apertures: one for connection to the air supply source and the other for connection to the cuf.f-link on the subject. This chamber is partitioned by piezoceramic disk 5, 30-mm in diameter, which separates it into two cavities. As the air is pumped through the connecting link into the lower cavity, the pressure in the cuff-link gradually increases, since the air enters through a tiny adjustable aperture into the upper cavity. Thus the air pressure in both cavities will be the same and the piezoelectric disk will remain in a non-

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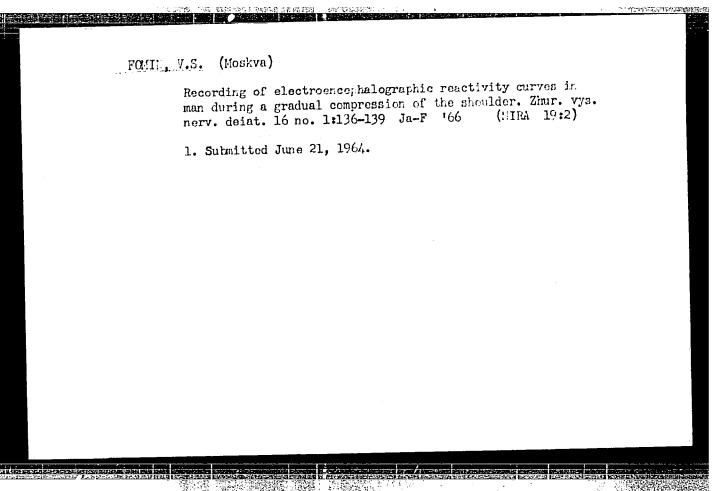




FCMRI, V.S., podpolkovník meditsinskey sluzbby, kard. med. nauk; MIGULINA, M.A.

Method of polycardiography using an ink-writing apparatus. Veon.-mod. zhur. no. 1:85 Ja '66 (MIRA 19:2)

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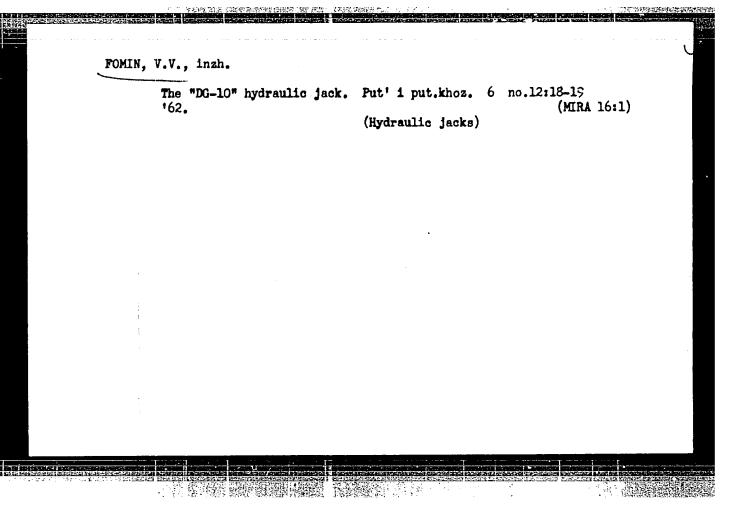


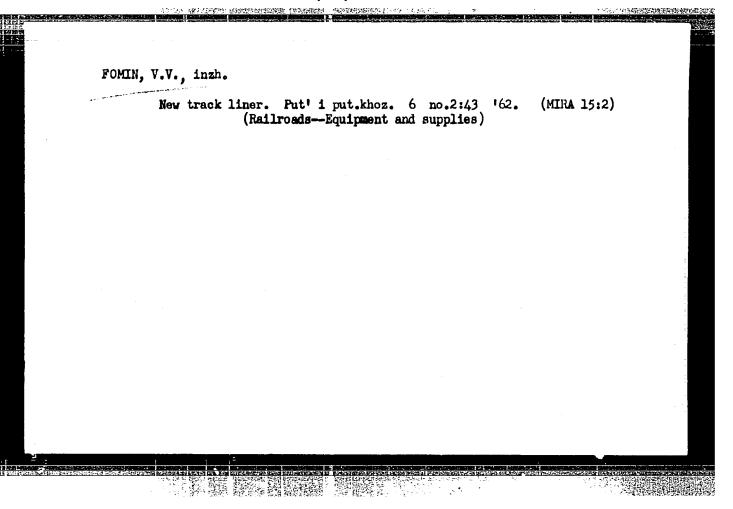
FOMIN, V.V., inch.; CHEKAREV, I.I., inzh.

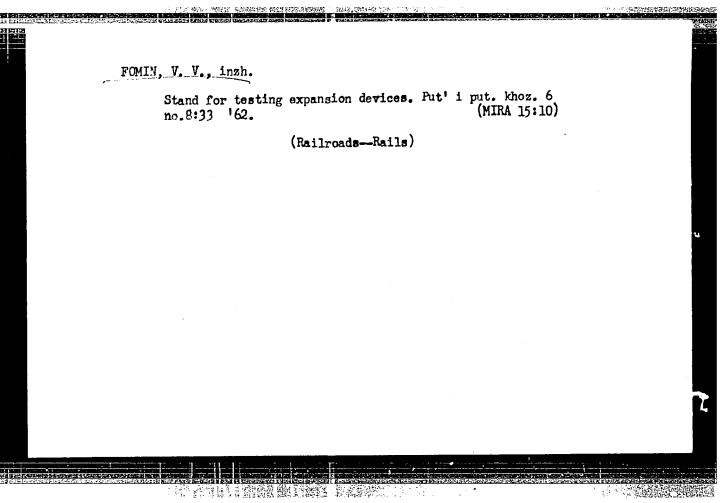
Shop workers give the example. Put'i put.khoz. 5 no.11'6-8
N '61.

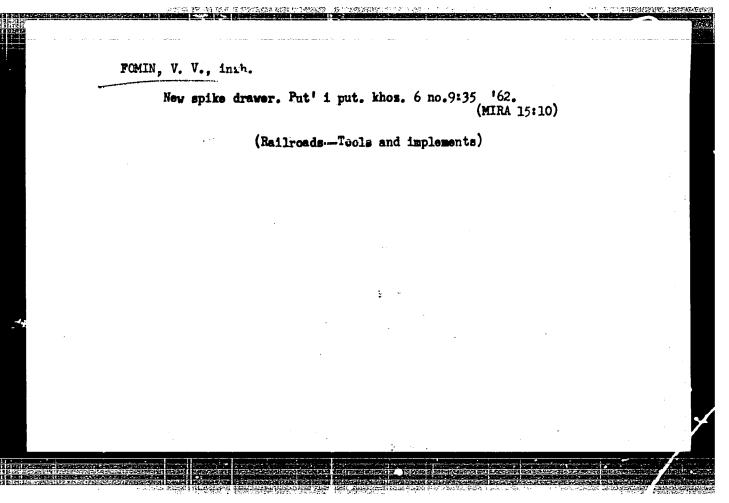
(Railroads—Labor productivity)

(Railroads—Labor productivity)









TRET'YAKOV, A.G., inzhe; FOMIN, V.V., inshe.

Gantry crame for the relocation and exchange of rails. Put' i put.khoz.
7 no.1:18-19 '63. (MRA 16:3)

(Crames, derricks, etc.)

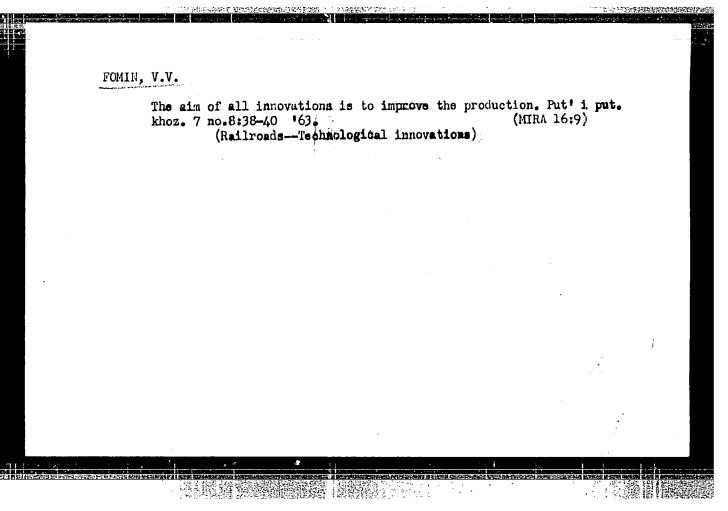
Improved rail	Improved rail joint expander. Put' i put. khos. 7 no.3:15 '63. (MIRA 16:4)				
(Railroads-Equipme	ent and supplies)			

Outstanding workers of workshops. Put! i put.khoz. 7 no.4:4-5 *63. (MIRA 16:3)						3 . 3)
1.	Ramenskaya dis	tantsiya pu (Railroads	ti Moskovsko Maintenanc	y dorogi.	·)	

FOMIN, V.V.

Refficiency promoters help the collective. Put' i put. khoz.
7 mo.6:44-45 '63.

1. Stantsiya Golta, Odessko-Kishimevskoy dorogi.
(Railroads-Rails-Welding)



FOMIN, V.V.

Assumed obligations will be fulfilled. Put' i put.khoz. 7 no.9:26-28 '63. (MIRA 16:10)

1. Zhmerinskaya distantsiya Yugo-Zapadnoy dorogi.

FOMIN, V.V.

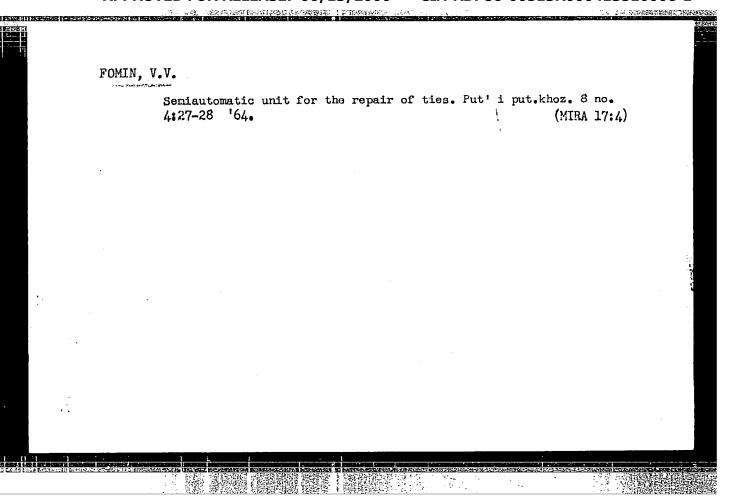
Creative activities of a collective. Put' i put. khoz. 7 no.11:38-39 '63. (MIRA 16:12)

1. Stantsiya Perm''II, Sverdlovskoy dorogi.

FOMIN, V.V.

Improving the bar. Put'i put.khoz. 7 no.12:15 '63. (MIRA 16:12)

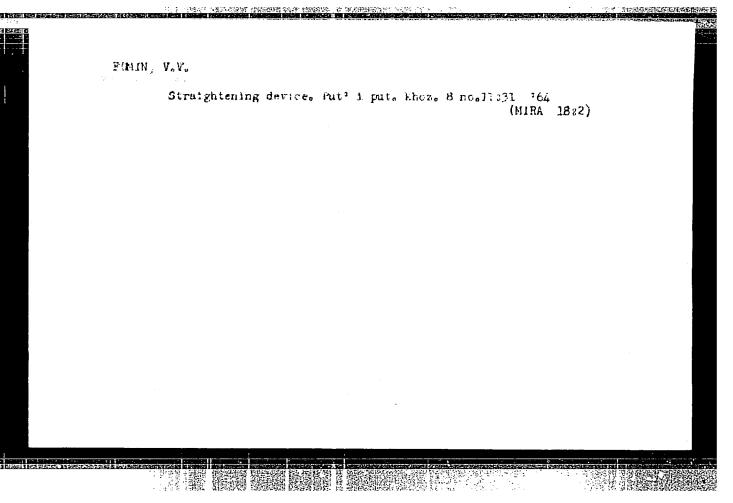
1. Slavyanskaya distantsiya Donetskoy dorogi.



FOMIN, V.V.

Made the skilled workers of the Northern Hallroad. Fut i put'khoz.
3 no.8:36-37 '64. (MRA 17:()

1. stantsiya Yıroslavl'-Glanyy, Severnoy dorogi.



L 56681-65 EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JG ACCESSION NR: AP5015961 UR/0128/65/000/066/0003/0004 29 669.141.25:66.046.51:621.744.527.7

AUTHOR: Fomin, V. V. (Candidate of technical sciences); Stekol'nikova, G. A. (Engineer)

TITLE: Increasing the erosion resistance of steel castings by surface alloying

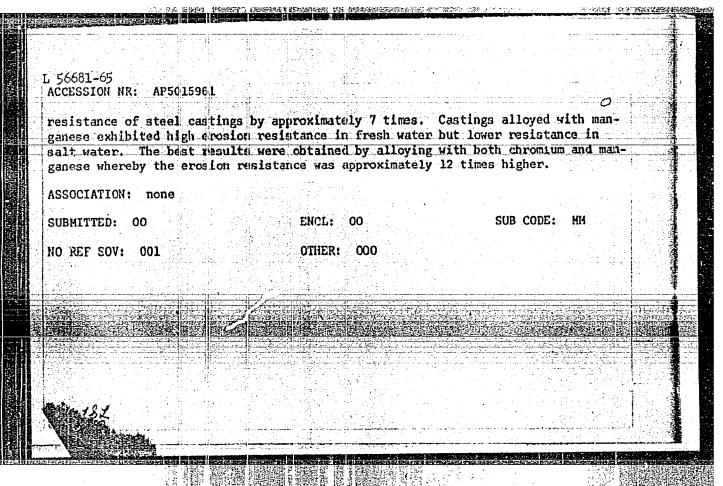
SOURCE: Liteynoye prolzvodstvo, no. 6, 1965, 3-4

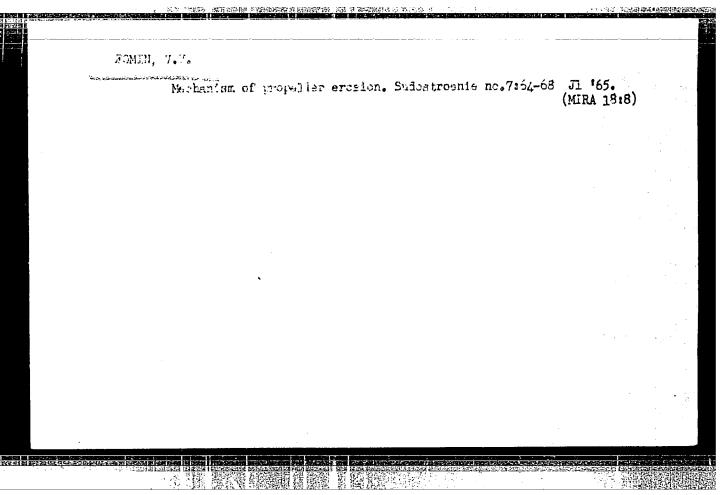
TOPIC TAGS: erosion resistance, surface alloying, mold coating, diffusion alloying, steel casting

ABSTRACT: Results are given of a study of steel castings produced according to a method developed by V. N. Fomin (Author's Certificate No 109326, 1956 "A Method of Preparing Casting Nolds with an Alloying Surface"). It was determined that an alloyed surface layer is formed basically as the result of the dissolution of the element in the mold coating by the liquid metal when the mold is filled: under these conditions diffusion processes occur both in the liquid and solid phases. Diffusion decreases with temperature reduction and is practically non-existent at 800°C. Tabulated results show that alloying with chromium increases the erosion

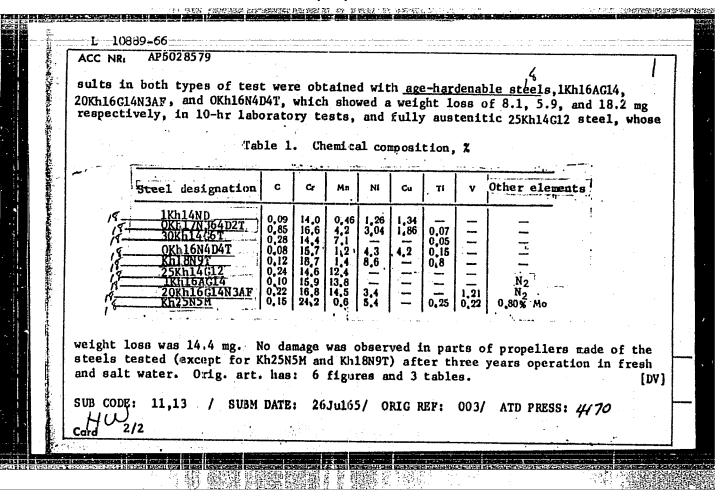
Card 1/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413510006-1"

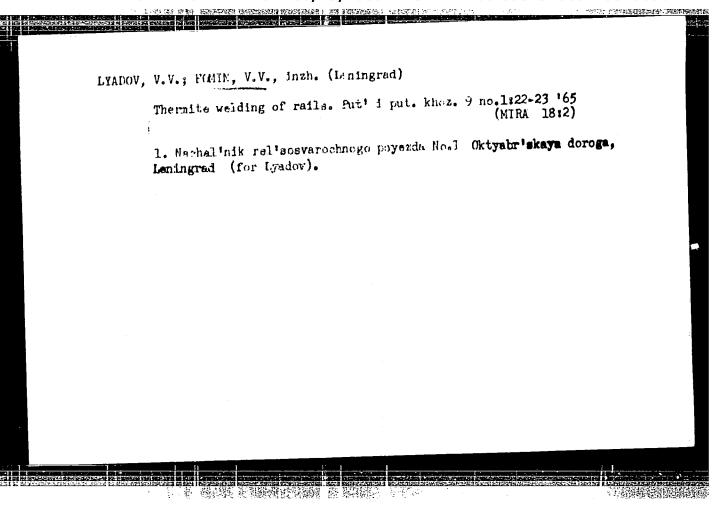


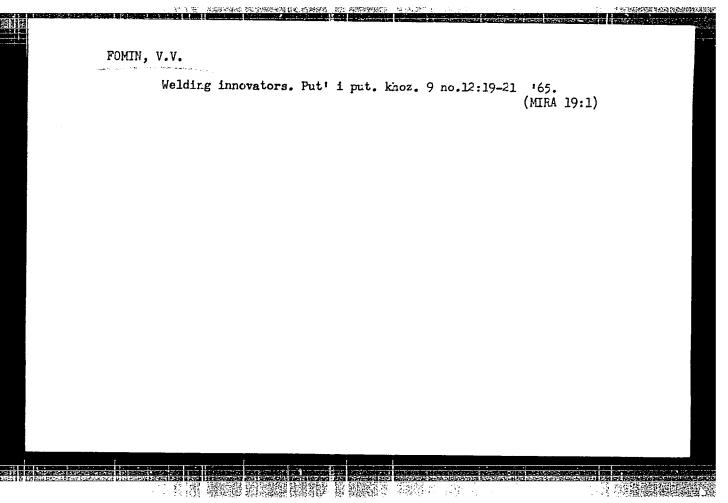


-EWT(m)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b) JD/WB 10889-66 AP5(128579 ACC NR SOURCE CODE: UR/0148/65/000/011/0141 The State of the second AUTHOR: Fomin, V. V. Murmansk Navigation School (Murmanskoye vysshyeye moryekhodnoye uchilishche) TITLE: Cavitation resistance of stainless-steel ship propellers under operational conditions SOURCE: IVUZ. Chernaya metallurgiya, no. 11, 1965, 141-147 TOPIC TAGS: steel, stainless steel, ship propeller, propeller steel, steel cavitation, cavitation resistance ABSTRACT: A series of stainless steels (see Table 1) were tested for cavitation resistance in a search for an inexpensive material for propellers of river- and seagoing ships. Tests were conducted under laboratory conditions and repeated under actual service conditions. The cavitation behavior was found to depend on the structure, phase composition, character of individual phases, and composition of the solid solutions. The austenite of chromium manganese steels such as 25Kh14G12, work hardens to a greater depth and hardness and has a higher cavitation resistance than the austenite of Kh18N9T chromium-nickel steel. Ferrite, as a rule, lowers cavitation resistance. Carbon and nitrogen in chromium-manganese steels suppress the ferrite formation and thus increase cavitation resistance. In addition, carbon and nitrogen form carbonitrides which also improve cavitation resistance. The best re-1/2 Card. UDC: 669.14.0188:620.193.16



FUMIN	No. V. A service of the service of t
	Cavitation resistance of stainless steel in conditions of screw propeller operations. Izv. vys. ucheb. zav.; chern. met. 8 no.11:141-147 '65. (MIRA 18:11)
	1. Murmanskoye vyssheye morekhodnoye uchilishche.

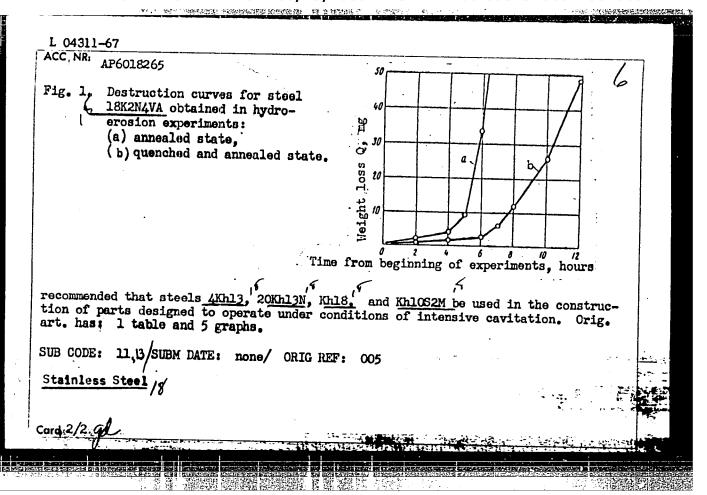




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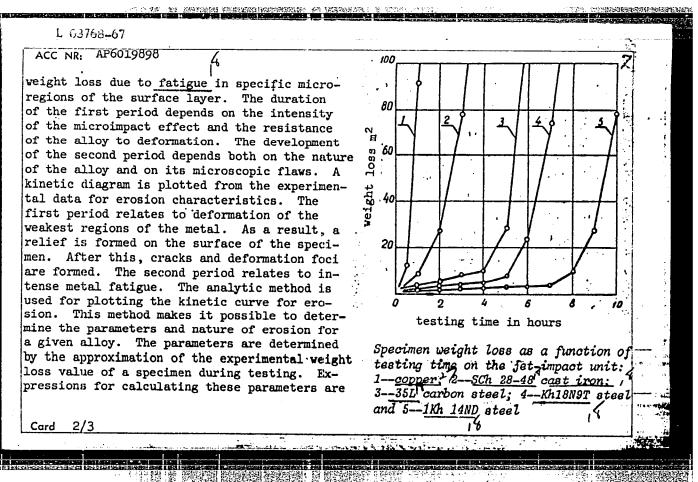
EWT(m)/EWP(t)/ETI JD/WB ACC NR AP6018265 (N)SOURCE CODE: UR/0133/66/000/002/0171/0173 AUTHORS: Fomin, V. V. (Candidate of technical sciences); Kazarnovskaya, I. (Engineer I ORG: none TITLE: Resistance of martensite and martensite-ferrite type steels to hydro-erosion SOURCE: Stal', no. 2, 1966, 171-173 TOPIC TAGS: alloy steel, marine equipment, sea water corrosion ABSTRACT: The resistance of 10 different martensite and martensite-ferrite types of steel to hydro-erosion was studied. The study was carried out with the aid of a magnetostriction vibrator as described by I. N. Bogachev and R. I. Mints (Kavitatsionnoye razrusheniye zhelezouglerodistykh splavov, Mashgiz, 1959). The rate of motion of the specimen was approximately 80 m/sec and the diameter was 8 mm. Several specimens were tested under natural conditions in sea water. The influence of annealing temperature on the flow impact resistance of the different steels was determined. Microstructure photographs of the specimens are presented. The experimental results are summarized in graphs and tables (see Fig. 1). It was found that the martensite and martensite-ferrite type steels acquire a high resistance to nydroerosion as a result of quenching and annealing. Steels 1Kh1AND, OKh16N4D4T, and 30Khll.G6T possess high resistance to hydro-erosion and action of sea water. It is **Card 1/2** UDC: 620.193.16:669. 15--194:669.26



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CIA-RDP86-00513R000413510006-1

L 03768**-**67 EnT(m)/EWP(w)/T/EWP(t)/ETI iJr(c) JD/WB /DJ ACC NR: AP6019898 SOURCE CODE: UR/0145/65/000/012/0088/0093 AUTHOR: Fomin, V. V. (Candidate of technical sciences); Marinin, A. A. (Engineer) ORG: Murmansk Higher Naval Academy (Murmanskoye vyssheye morekhodnoye uchilishche) TITLE: Kinetics of the hydroerosion of metals and alloys SOURCE: IVUZ. Mashinostroyeniye, no. 12, 1965, 88-93 TOPIC TAGS: kinetic theory, erosion, hydraulic device, metal deformation, plastic deformation ABSTRACT: The authors study the kinetics of the hydroerosion of metals and alloys. In studying hydroerosion, metals and alloys with various compositions were tested on a jet-impact unit at an impact velocity of 80 m/sec with an 8 mm nozzle diameter. The study showed that the velocity of collision of the speciemn and the jet of water is the determining factor with respect to fatigue. The resistance of metals or alloys to hydroerosion depends on many factors. Among them are the nature, structure and the presence of microscopic flaws. The test results for various metals and alloys are shown in the accompanying graph. These curves show that fatigue conforms to general laws with respect to microimpact. The hydroerosion of metal may be divided into two periods: the initial period which is characterized by deformation buildup, crack formation and fatigue foci, and the final period in which the specimen shows an intense Card 1/3

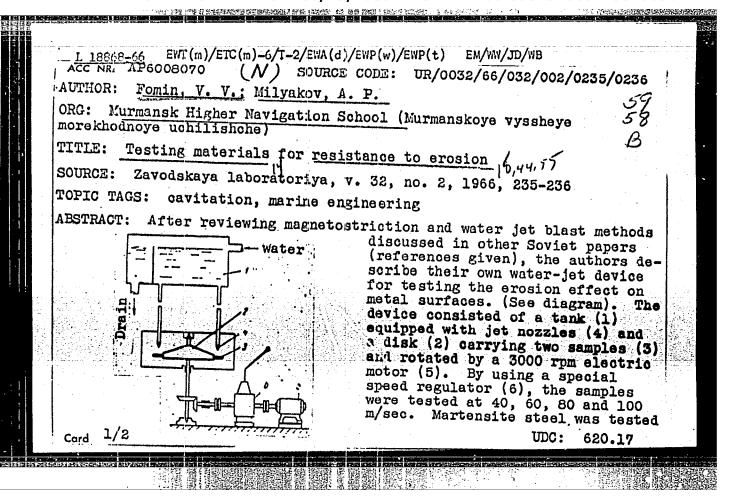


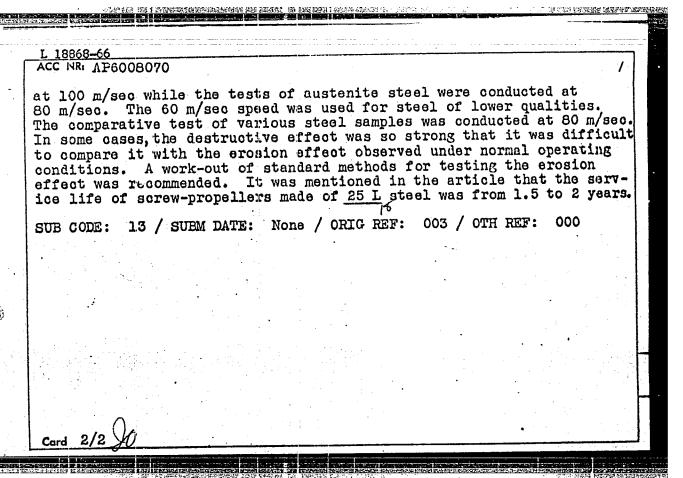
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Siven. The s its structure tables, 9 for	hape of the ki and the prese mulas.	netic curve nce of mic	e for erosion roscopic flaws	depends on the . Orig. art.	e nature of the has: 3 figure	e alloy, es, 2
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SOURCE CODE: UR/O125/66/000/005/0053/0053 יסס−עומכנ ע ACC NR: AP6015247 WH/WW/JD/HM . . 52 AUTHOR: Kozulin, M. G.; Systishev, A. P.; Fomin, V. V. В ORG: [Kozulin, Systishev] Tol'yattinsk Volgotsemtyszhmash Heavy Cement Machinery Plant (Tol'yattinskiy zavod "Volgotsemtyashmash"); [Fomin] Institute of Electric Welding im. Ye. O. Paton, AN UkrSSR (Institut elektrosvarki AN UkrSSR) TITIE: Consumable-electrode electrosleg walding of 400-mm thick Khl8W10T stainless steel 5 SOURCE: Avtomaticheskaya svarka, no. 5, 1966, 53 TOPIC TAGS: stainless steel, power transformer, electroslag welding, welding electrode/Kh18N1OT stainless steel, TShS power transformer ABSTRACT: Industrial techniques of welding of this kind, based on the use of A-645 welding machine powered by a TShS-3000-3 transformer, as performed at the Volgotsem tyazhmash Plant, are described. The consumable electrode was prepared in the form of three 5-mm thick/plates of Khl8N1OT sheet steel with four welded-on guide spirals of Sv-06Kh19N9T wire (diameter 3 mm). Inside diameter of the spiral: 5 mm. Outside diameter: 11 mm. On being thus assembled, this electrode was inserted in a holder. It was insulated from the work part by a fiberglass fabric. On both sides the joint was backed with wedge-reinforced water-cooled copper tacks. Recommended 621.791.756:669.15-194:669.26'24 Card 1/9

hr, weld ccurs sta 00x700 sm consumable stainless	ing flux ANF-7 bly, without (in area: 1 l -electrode tec Gr-Ni cast at	, depth opatter and the control of t	of weld pool 4 nd splash. Wel efects have be f the electros e employed in	5-55 mm, clearand lding time for a en discovered aft lag welding of 40 the fabrication (welding rate 220 ce 35 mm. The we specimen measuri terward. This 00-mm thick Kh181 of flanges, hoops s: 1 figure and	ing ,
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ACC NRI AP6035033

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SOURCE CODE: UR/0122/66/000/909/0059/0061

AUTHOR: Fomin, V. V. (Candidate of technical sciences, Docent); Mudrova, A. G.

(Engineer)

ORG: none

TITIE: Hydroerosion resistance of titanium coated carbon steel

SOURCE: Vestnik mashimostroyeniya, no. 9, 1966, 59-61

TOPIC TAGS: erosion, titanium, metal diffusion plating

ABSTRACT: The samples were titanium coated at a temperature of 1100-1500°C in a reaction mixture of 15% fluorspar, 4% sodium fluoride, and 81% ferrotitanium, treated with hydrochloric acid. On the surface of the samples there was deposited a layer of the reaction mixture with a thickness of 2-3 mm, and then a layer of ordinary quartz sand with a binder. The duration of the process was 4-6 hours. Increasing the duration of the process did not substantially change the depth and the concentration of the diffusion layer. Increased activity of titanium is attained by previous treatment of the ferrotitanium with hydrochloric acid and by the presence of sodium fluoride in the reaction mixture. X ray analysis of the coating shows that at such a depth of the diffusion layer, the layer consists primarily of a mixture of the solid solution and the chemical compound Fe₂Ti. Hydroerosion tests were made on coatings

Card 1/2

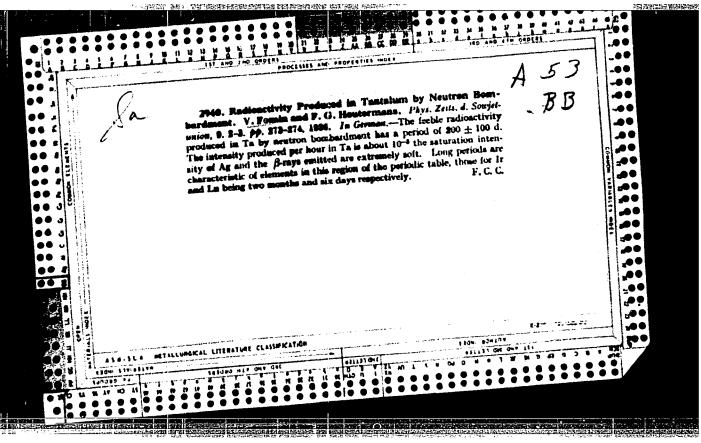
UDC: 620.193.1:669.141295

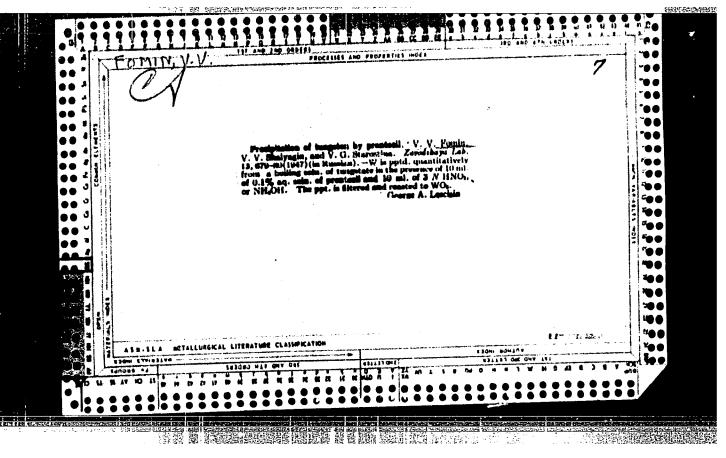
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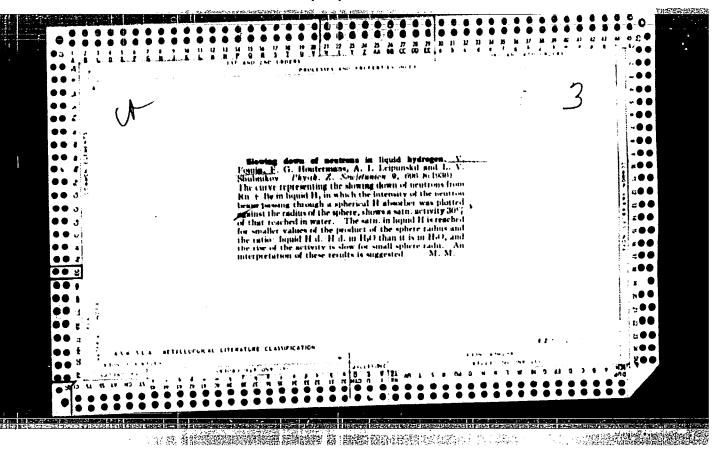
prepared in this manner. Metallographic examination of the hydroerosion of the diffusion layer, saturated with titanium, shows that under jet action, there first appear traces of plastic deformation in the form of slip lines and twinning. There then appear at these locations microcracks which grow quickly and turn into failure sites. Failure takes place along the weak grain boundaries as well as in the grains themselves. Nevertheless, the data shows that the titanium coating method described in the article has the advantage of producing a deep diffusion layer with an increased concentration of titanium and rich in carbides, and which has a high degree of hardness. Orig. art. has: 3 figures and 1 table.

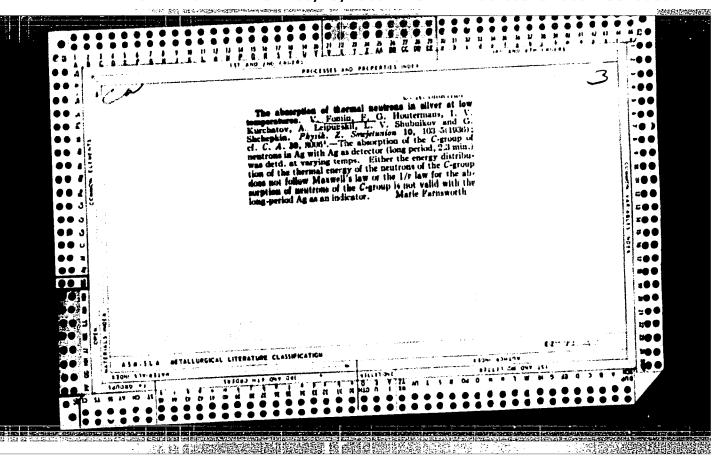
SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 003

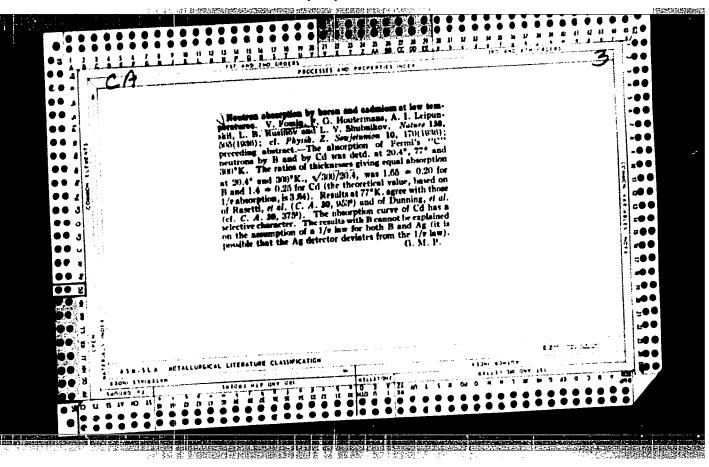
Card 2/2

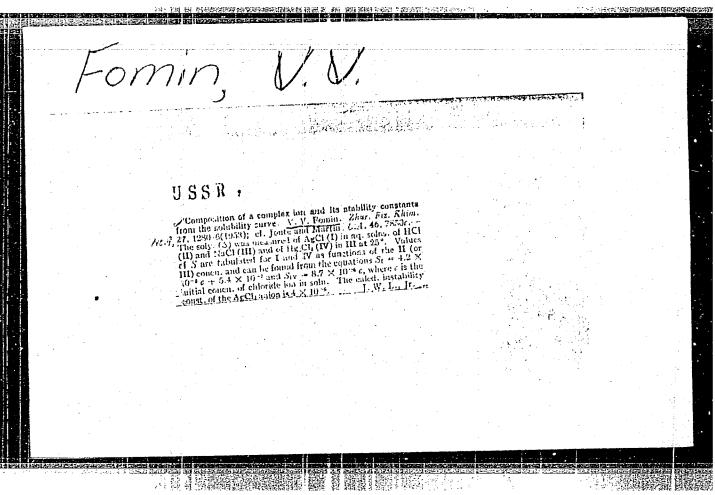


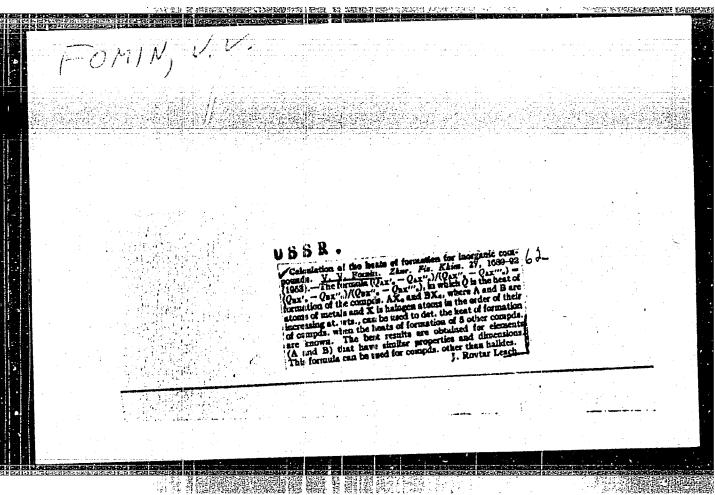












USSR/Chemistry - Physical chemistry

Card 1/1 : Pub. 147 - 5/22

Authors : Fomin, V. V.

Title : Estimation of the heats of formation of inorganic compounds

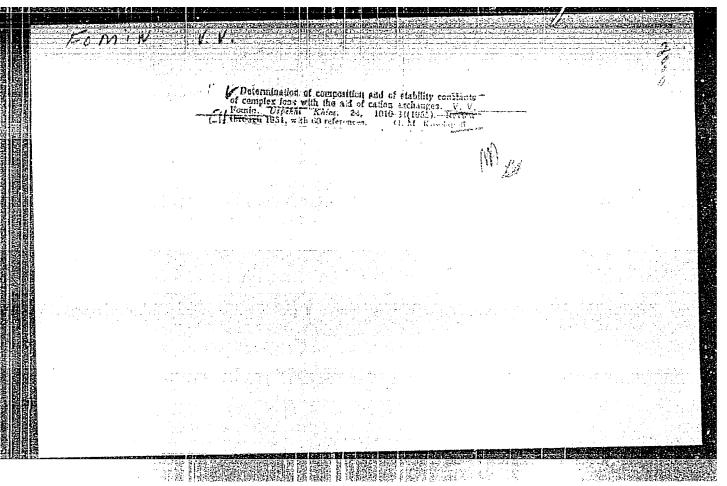
Periodical: Zhur. fiz. khim. 28/11, 1896-1900, November 1954.

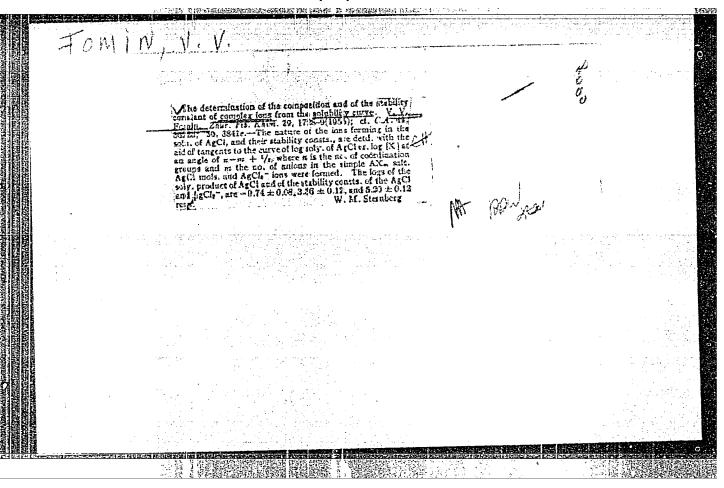
Abstract : A method for the estimation of heats of formation of inorganic compounds is described. It was established that the heat of formation is determined mainly by the interatomic spaces and by the energies of the crystalline lattices. A method, for the calculation of the function of interatomic spaces in accordance with radii of the cation and anion and through the application of a simple equation for the crystalline lattice energy, is introduced. Fourteen references: 12-USSR; 1-German and 1-USA (1932-1953).

Tables.

Institution:

Submitted: January 3, 1954





USSR/Chemistry - Analytical chemistry

Card 1/2

Pub. 147 - 11/22

Authors

* Fomin, V. V.; Fedotova, L. N.; Sin'kovskiy, V. V., and Andreyeva, M. A.

Title

1 Study of cadmium chloride complexes by means of anionites

Periodical : Zhur. fiz. khim. 29/11, 2042-2047, Nov 1955

Abstract

8 A new method for the determination of stability constants of complex anions by means of anions, provided the solution contains one complex ion and complex cations and molecules, is described. The method is based on the application of the effective mass law to the ion exchange. It is shown that the distribution of Cd between the anionite and the potassium chloride solution at an ion force close to one corresponds to a certain

Institution:

Submitted : February 25, 1955

CIA-RDP86-00513R000413510006-1" APPROVED FOR RELEASE: 06/13/2000

Card 2/2 Pub. 147 - 11/22

Periodical: Zhur. fiz. khim. 29/11, 2042-2047, Nov 1955

Abstract equation for stability constants of complex Cd-ions. The complexity in retaining a constant ion force during changes in concentrations of ions

participating in the complex formation is the main difficulty of the new method. Twenty references: 8 USA, 7 USSR, 1 Ital., 3 Scand., and 1 Cerm. (1937-1953). Tables.

FOMIN, V.V.; MASLOVA, R.N.

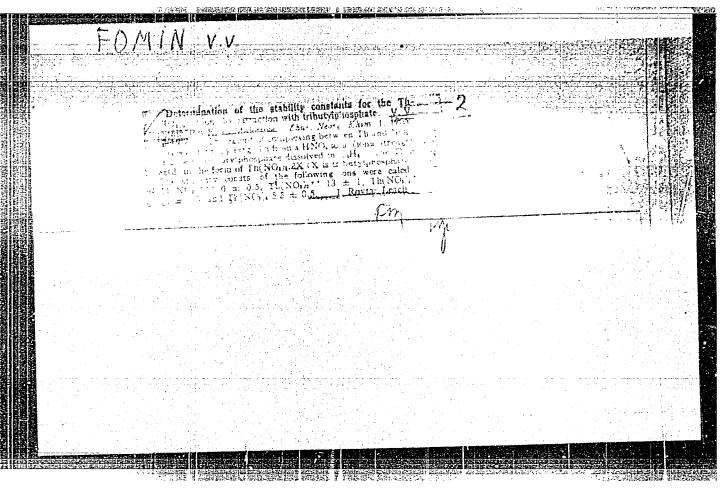
Valence states of P³² which is formed in the reaction S(m.p)P.
Zhur.neorg.khim. 1 no.2:337-341 F '56.

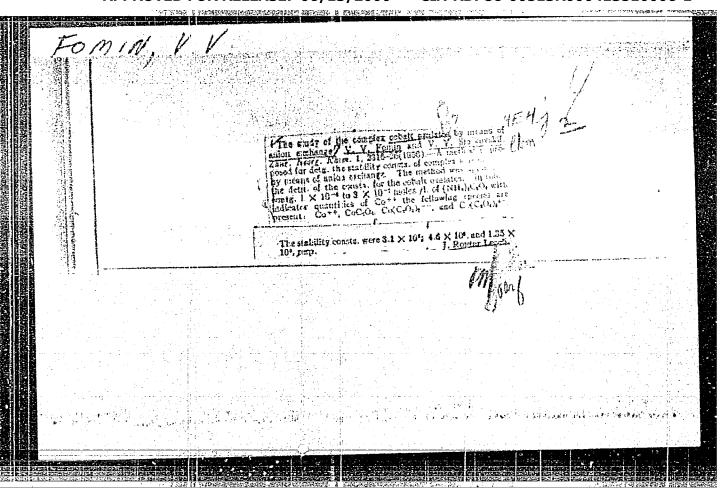
(Phosphorus--Isotopes)

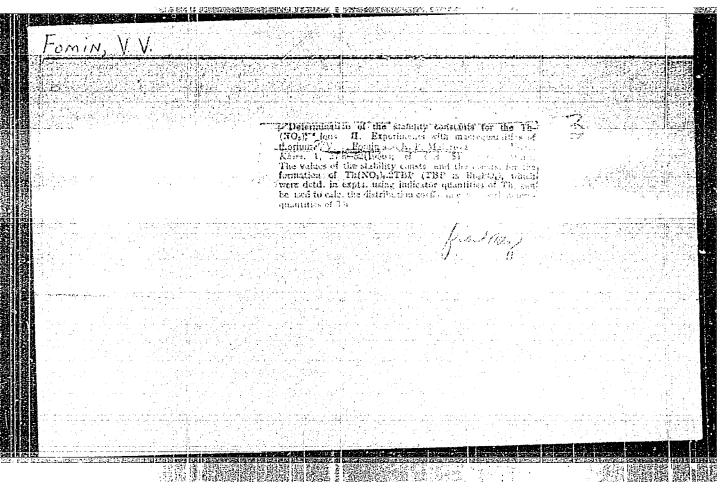
KNYAZEV, G.A.; FOMIN, V.V.; ZAKHAROV-MARTSISSOV, O.I.

Ion-exchange study of the dissociation of CoC₂O₄. Zhur.meorg.
(MLRA 9:10)

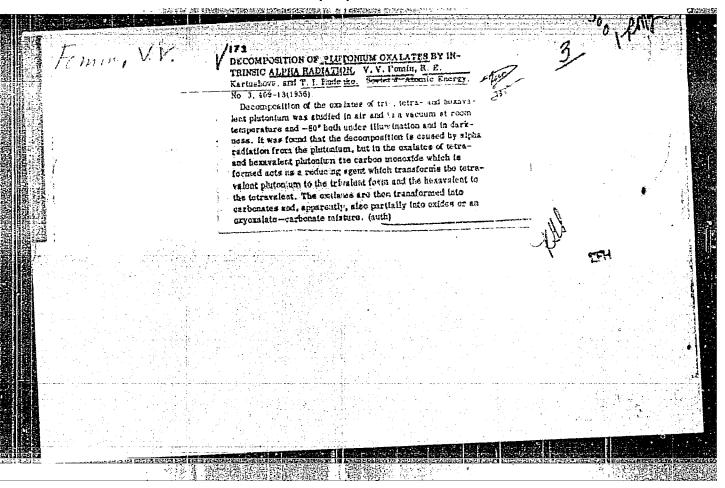
(Cobalt oxalates) (Ion exchange)







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FORIR, V. V. et al

"PREPARATION AND PROPERTIES OF PLUTONIUL FLOURIDES".

By V. V. Fomin, et al.

Report presented at 2nd UN atoms-for-Peace Conference, Geneva, 9-13 Sept. 1958.

78-3-4-23/38 Alenchikova, I. F., Zaytseva, L. L., Lipis, L. Y., Nikolayev, N. S., Fomin, V. V., Chebotarev, N. T. AUTHORS: Investigation of the Physico-Chemical Properties of Plutonyl Fluoride (Izucheniye fiziko-khimicheskikh svoystv ftoristogo TITLE: plutonila) Zhurnal Neorganicheskoy Khimii, 1958, Vol. 3, Nr 4, pp. 951-955 (USSR) PERIODICAL: The synthesis of plutonyl fluoride from hydrochloric acid solutions of plutonium-VI with liquid hydrofluoric acid ABSTRACT: The plutonyl fluoride produced by this synthesis was analyzed as follows: a) by chemical analysis b) by determination of the state of valence of plutonium by means of the electron absorption spectrum c) by the determination of the composition based on the U. R. -absorption spectrum d) by X-ray structural analysis. The chemical analysis showed that plutonyl fluoride has the following formula: PuO,F,. Card 1/2

78-3-4-23/38

Investigation of the Physico-Chemical Properties of Plutonyl Fluoride

The electron and U.R. absorption spectra of plutonyl fluoride proved the presence of the PuO₂²⁺-ion and the absence of

the Pu-IV-ion.

The crystallization structure of plutonyl fluoride shows a rhombic lattice with the constants a = 5,797+ 0,005 A and

The X-ray density of PuO₂F₂ amounts to 6,50 g/cm³. The solubility of plutonyl fluoride in water at 20°C amounts to 1,07 g/l. On the action of water on plutonyl fluoride a change of structure occurs. There are 5 figures, 2 tables,

and 7 references.

SUBMITTED:

October 20, 1957

Card 2/2

CIA-RDP86-00513R000413510006-1" APPROVED FOR RELEASE: 06/13/2000

SOV/78-3-9-18/38

AUTHORS:

Fomin, V. V., Kartushova, R. Ye., Rudenko, T. I.

TITLE:

The Determination of the Stability Constant of the Ions $Ce(NO_3)_x^{3-x}$ With the Aid of a Tributyl Phosphate Extraction (Opredeleniye konstant ustoychivosti ionov Ce(NO₃) x pri

pomoshchi ekstraktsii tributilfosfatom)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 9, pp 2117-2127

(USSR)

ABSTRACT:

The dependence of the distribution coefficient of trivalent cerium between a nitric acid solution and a solution of tributyl phosphate in benzene on the concentration of cerium, on the hydrogen concentrations, on the concentration of tributyl phosphate and on the nitrate ion was investigated. The radio-

active isotope Ce 144 was used as indicator in these investigations. In the investigation of the dependence of the distribution coefficient on the cerium concentration it was found that cerium does not polymerize in acid medium and the extraction does not depend on the concentration. The complex extracted has

Card 1/3

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413510006-1"

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SOV/78-3-9-18/38 The Determination of the Stability Constant of the Ions $Ce(NO_3)_x^{3-x}$ With the Aid of a Tributyl Phosphate Extraction

the following composition: $Ce(NO_3)_3.3TBPh$. It was found that the distribution coefficient of trivalent cerium increases with rising hydrogen ion concentration. In contrast to this no increase of the distribution coefficients takes place in the case of the presence of salting-out compounds, e. g. LiNO₃. The following complex ions exist in the aqueous solution: $Ce(NO_3)^{2+}$ and $Ce(NO_3)^{2+}$. The stability constants of these compounds are the following: 11 ± 2.5 and 32 ± 7 . The equilibrium constant for the equation $Ce^{3+} + 3NO_3 + 3TBPh \rightleftharpoons Ce(NO_3)_3.3TBPh$ was calculated to be 1. There are 6 figures, 7 tables, and 20 references, 10 of which are Soviet.

SUBMITTED:

October 2, 1957

Card 2/3

CIA-RDP86-00513R000413510006-1 "APPROVED FOR RELEASE: 06/13/2000

FomiN,

AUTHORS:

89-1-7/29 Fomin, V. V., Vorob'yev, S. P., Andreyeva, M. A.

TITLE:

Investigation of Complex Plutonium Oxalate Compounds by the Polarographic Method (Izucheniya kompleksnykh oksalatov plutoniya

polyarograficheskim metodom).

PERIODICAL:

Card 1/2

Atomnaya Energiya, 1958, Vol. 4, Nr 1, pp. 57 - 62 (USSR).

ABSTRACT:

The composition and constancy for tri- and quadrivalent complex plus tonium ions in oxalate solutions was determined by the polarographic method. In a solution of potassium oxalate with a pH value of from 3,5 to 6,0 mainly [Pu(C2O4)4] and also [Pu(C2O4)4] -5 are formed.

Conditions being as they are given, there exists for Pu+4 a well des veleped reversible reaction wave, which suffices for the qualitative

polarographic determination of plutonium.

The oxidation reduction potential for this reaction in a l M solu-

If the solutions have a pH value between 6 and 8, then two Pu+4 com=

plexes exist at one and the same time. From the data for the solubility of [Pu(C204)3] the instability con-

stants for the complex ions [Pu(C204)3] and [Pu(C204)4] and from